L 33467-66 Edf(1)/T ACC NR. AP6029184 SOURCE CODE: UR/0016/66/000/005/0014/0017 Volkeva, L. A.; Yushkin, G. V. ORG: Orenburg Oblast Sanitary-Epidemiological Station (Orenburgskaya oblastnaya sanitarno-epidemiologisheskaya stantsiya) TITLE: Tularenia in Orenburgskaya Oblast, I. SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 5, 1966, 14-17 TOPIC TAGS: tularemia, epidemiology, pathology, rodent, disease incidence On the basis of a study conducted between 1960 and 1962. ABSTRACT: the authors concluded that the boundaries of the natural focus of tularemia in Orenburgskaya Oblast (a floodplain swamp) have tended to expand since the disease was first reported in this area in 1928. In 1960, six cultures of F. tularensis were isolated from Arvicola terrestris L., Cricetus cricetus L., Apodemus sylvaticus, and Citellus maximum. The number of rodents caught in enzootic and nonenzootic regions was about the same, but the tularemia pathogen was not isolated from any of the rodents caught in the nonenzootic regions. The pathological changes characteristic of tularenia were found mainly in the water voles, e.g., enlargement of the lymph nodes of the liver and marked splenomegaly. Orig. art. has: 2 tables. [JPRS: 36,932] SUB CODE: 06 / SUBM DATE: 15Jun64 / ORIG REF: 002 Card 1/1/11/P UDC: 616.981.455-036.21(470.56)

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<b>Y</b> .	AUTHOR: Sorokin, A. Ya.; Andreyeva, N. A.; Volkova, L. A.; Kol'tsov, A. I.; Rudakov, A. F.; Pyrkov, L. M.; Frenkel', S. Ya	
	Rudakov, A. F.; Pyrkov, L. M.; Frenker, S.	
	ORG: IVS AN SSSR	
	TITLE: Correlation of structural and mechanical characteristics of polyvinyl alcohol fibers 15 Investigation of supermolecular arrangement in chemical fibers and means of increasing their strength 15	
1	covers. Vhimicheskive volokna, no. 6, 1965, 22-20	
	TOPIC TAGS: polyvinyl alcohol, synthetic fiber, polymer structure, analysis	
	ABSTRACT: The structural and mechanical properties of polything and mechanical properties of polything the structural and mechanical properties of thermoplasticized stretch fibers were investigated using the range of thermoplasticized stretch fibers were investigated using the range of the polything fibers.	
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ACC NR: AP60C4869 (N) SOURCE CODE: UR/0402/65/000/005/0613/06	514
AUTHOR: Noskov, F. S.; Boldasov, V. K.; Gol'din, R. B.; Yerreskov. N. V.; Volkova, L. A.	33
ORG: Military Medical Academy im. S. M. Kirov, Order of Lenin, Leningrad (Voyennomeditsinskaya ordena Lenina akademiya)	32 B
TITLE: Contrast medium for immunofluorescent detection of sdenoviruin cell cultures of guines pig kidneys	ises b
SOURCE: Voprosy virusologii, no. 5, 1965, 613-614	
TOPIC TAGS: virus disease, animal disease, experiment animal, test	
ABSTRACT: Bovine serum albumin labeled with sulforhodemine B fluoris was tested as a contrast medium for adeovirus type 4 infected guines pig kidney cells stained with fluorescein. The infected cells were exposed to the specific rebbit immune globulin, then added with fluorescein isothiocyanate at a rate of 10 mg fluorochrome per 1 g protein. The phosphate buffered serum albumin was first conjugated with freshly synthesized sulforhodemine B fluoride in an alkaline medium, then purified. The fixated adenovirus preparations were tree	
Card 1/2 UDC: 576.858.5.093.3.073.	4

C/ 440=00 ACC NR: AP6004869 with the mixture of conjugates for 20 minutes, then studied under the luminescent microscope. Normal cells were brick red, the protoplasm fighter than the nucleus; the infected nuclei had a specific green color with bright green sparkling enclosures. Upon single step processing of the preparations, the specific interaction of virus antigen-antibody was not inhibited by the presence of the labeled albumin. The physicochemical absorption of labeled albumin on cells led to nonspecific staining of the backgroud (cells containing no virus antibodies) which did not depress specific fluorescence. This method also permits the detection of single infected cells. Its use is recommended. "The sulforhodamine B fluoride was placed at our disposal by Prof. I. S. Ioffe whom we wish to thank for his courtesy". Orig. SUB CODE: 06/ SUBM DATE: 26Nov64/ OTH REF: 006 Card 2/2

VOLKOVA, L.A.

PHASE I BOOK EXPLOITATION

1043

Ural'skiy zavod tyazhelogo mashinostroyeniya, Sverdlovsk

Proizvodstvo stali (Steel Production) Moscow, Mashgiz, 1958. 154 p. (Series: Its Sbornik statey, vyp. 3) 4,000 copies printed.

Ed.: Zamotayev, S.P., Engineer; Tech. Ed.: Dugina, N.A.; Executive Ed. (Ural-Siberian Division, Mashgiz): Kaletina, A.V., Engineer.

PURPOSE: This book, published on the 25th anniversary of the Uralmashzavod (Ural Heavy Machine-building Plant imeni S. Ordzhonikidze) is intended for engineers, technicians and scientific workers concerned with the production of steel.

COVERAGE: The basic stages in the development of steel making during the 25 years of the existence of the Ural Heavy Machine-building Plant are described. The following achievements in the field of steel making technology are described: vacuum pouring, resulting in an improved quality of steel; production of ingots in a variety of special shapes; steel making in open-hearth and electric furnaces. Research work done by the central laboratory of the plant, including a study of the causes of the formation of internal cracks in heat-resistant steel ingots

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Steel Production	1043	
and a study of nonmetallic inclusions liquation in large ingots, is also di	s, macrostructure and intracrystalline scussed.	
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VOLKOVA, Lyudmila Andreyevna; VOLFYANSKIY, L.M., inzh., red.;
DUGINA, N.A., tekhn. red.

[Metal melting in induction furnaces] Playka metalla v induktsionnykh pechakh. Pod red. L.M.Volpianskogo. Moskva, Mashgiz, 1961. 59 p. (Nauchno-populiarnaia biblioteka rabochego-liteishchika, no.17) (MIRA 15:3) (Electric furnaces)

(Foundries-Equipment and supplies)

KLENKOVA, N.I.; KULAKOVA, O.M.; VOLKOVA, L.A.

Determination of the density and other properties of cellulose fibers characteristic of their structure in relation to reactivity. Zhur.-prikl.khim. 36 no.1:166-176 Ja 163. (MIRA 16:5)

1. Institut vysokomolekulyarnykh sovedineniy AN SSSR. (Cellulose)

SMIRNOVA, A.V.; KRASNOVA, A.K.; VOLKOVA, L.A.; MAKAROVA, V.N.

Methods for the exposure and determination of the grain size of austenite in steel. Standartizatsiia 27 no.5:23-28 My '63.

(MIRA 16:6)

(Austenite—Metallography)

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KHENKOVA, N.1.; KULAKOVA, O.M.; VOLKOVA, L.A.

Structure characteristics of weakly hydroxyethylated cellulose
fibers as related to their high reactivity. Zhur. prikl. Zhir.
37 no.9:2023-2028 S 164. (MINA 17:10)

1. Institut vysokomolekulyarnykh soyedinenty AN SSSR.

SCROKIN, A.Ya.; ANDREYEVA, N.A.; VOLKOVA, L.A.; KCL'TSOV, A.1.; FIDARCY, A.P.; PYRKOV, L.M.; FRENKEL', S.Ya.

Correlation of the structural and mechanical characteristics of polyvinyl alcohol fibers. Khim. volok. no.6:22-26 '65.

(MIRA 12:22)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

Submitted June 9, 1964.

KLENKOVA, N.I.; KULAKOVA, O.M.; MATVEYEVA, N.A.; VOLKOVA, L.A.; ISIMARA, N.D.

Effect of methylamine in various media on the structure and reactivity of cotton fibers. Zhur. prikl. khim. 38 no.5:1077-1.084 My '65. (MIRA 18:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

SOKOL'SKIY, D.V.; VOLKOVA, L.D.

Hydrogenation of mesityl oxide in mixed solvents. Izv.AN Lazakh SSR.

Ser.tekh.1 khim.nauk no.1:3-7.'63. (MIRA 17:5)

SOKOL'SKIY, D.V.; VOIKOVA, L.P.

Hydrogenation of acrylonitrile in mixed solvents on a Niskeletal catalyst. Izv. AN Kazakh. SSR. Ser. khim. nauk 14 no.1:69-74 Ja-Mr '64.

(MIRA 18:3)

WOLKOVA, L.D.; SOKOL'SKIY, D.V.

Hydrogenation of nitriles with conjugated bonds in mixed solvents.

Izv. AN Kazakh. SSR. Ser. khim. nauk 15 no.1:52-57 Ja-Mr '65.

(MIRA 18:12)

1. Submitted Nov. 11, 1964.

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EWT(m)/EWA(d)/EWP(j)/T **10**0903-66 UR/0332/65/000/008/0014/0017 ACCESSION NR: AP5020205 ₩U 665.3/35:661.185.1 (Engineer); Volkova, L. D. (Engineer) TITLE: Powdery cleansing agents on the basis of alkylsulfates, obtained by direct sulfation of nonsaponifiables - II alcohols. Communication 3 SOURCE: Maslozhirovaya promyshlennost', no. 8, 1965, 14-17 detergent, alkylsulfate, sulfation, cleaning compound TOPIC TAGS: ABSTRACT: In their previous paper (Maslozhirovaya promyshlennost', 1965, 6), the authors noted the dependence of properties of the nonsaponifiables-II alcohols on the boiling point. In this present work, the effect of inorganic salts on the cleansing ability and surface-active properties of alkylsulfates derived from the nonsaponifiable-II fraction of alcohols boiling at 350, 375, and 4000 was determined The composition of the cleansing agents studied is given in Table 1 on the Enclosure The cleansing ability was tested on wool, silk, capron, and cotton fabrics, and was compared with the performance of detergents "Novost'" and "Progress." It was found that cleansing sbility increases with the boiling point of the nonseponifiable-II alcohol fraction. Orig. art. has: 5 tables.

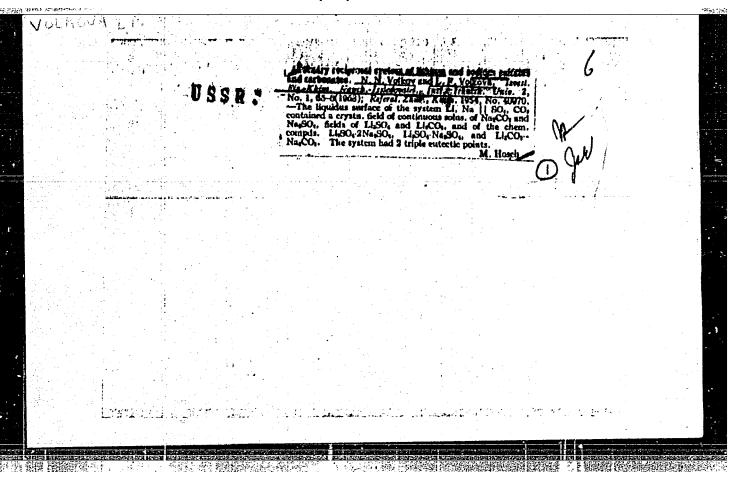
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Pc-li/Pr-li/Ps-li Wn/fM ENT(m)/EPF(c)/EPR/EWF(j)/T/EWA(c) UR/0360/65/000/001/0052/0057 ACCESSION MP: AP5012828 AUTHOR: Yolkova, L. D.; Sokol'skiy, D. V. TITLE: Hydrogenation of nitriles with conjugated bonds in mixed solvents SOURCE: IN KazSSR. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1965, 52-57 TOPIC TAGS: methacrylonitrile, acrylonitrile, hydrogenation, catalysis ABSTRACT; The authors studied the hydrogenation of methacrylonitrile and acrylonitrile on Pd and Pt black, and of methacrylonitrile on Raney nickel in n-butyl alcohol, dimethylformamide, and mixtures of the two. Three to five portions of the compound studied were hydrogenated in succession on the same batch of catalyst. Kinetic and potentiometric curves show that the hydrogenation of methacrylonitrile in n-butyl alcohol proceeds at a gradually decreasing rate, and the reaction is firstorder. In dimethylformamide, the reaction is considerably slower, and the reaction order changes. In mixtures, the rate of hydrogenation decreases with rising dimethylformamide content; this is thought to be caused by the polar properties of this solvent. The activation energy of the hydrogonation-increases from n-butyl alcohol to dimethylformamide. On Pd black, both nitriles are converted to saturated Card 1/2

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as: 6 figures and	3 tables.		<u> </u>	antig		3.4
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SOV/137-58-8-16613

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 53 (USSR)

AUTHORS: Volkova, L., Dausheva, M.

TITLE: Cementation of Certain Metals from Their Carbonates by a

Sodium Amalgam (Tsementatsiya nekotorykh metallov iz ikh

karbonatov amal'gamoy natriya)

PERIODICAL: Byul. nauchn. stud. o-va. Kazakhsk. un-t, 1957, Nr 7,

pp 14-16

ABSTRACT: Qualitative experiments were made in the displacement of a

number of metals from their carbonates by an Na amalgam (A). The experiments were run as follows: 5 cc 1% Na A was shaken in a separating funnel for 5 min with suspensions of 0.5 milliequivalents of carbonates of various metals in 5 cc of distilled water. The A was then separated from the solution. The solution was examined for content of the corresponding cation. The A was washed with water and treated successively by HCl and a solution of mercurous nitrate, the metal going into the A being separated out of solution. In terms of their ratio to the Na A,

the metal carbonates may be divided into 3 groups; viz.,

Card 1/2 a) carbonates the metals of which undergo complete

SOV/137-58-8-16613

Cementation of Certain Metals from Their Carbonates (cont.)

cementation with formation of A, these being the carbonates of Ag, Cu, Pb, and Zn; b) carbonates the metals of which undergo partial cementation, these being the carbonates of Ni, Co, and Mn, and c) carbonates the metals of which do not undergo cementation, these being the carbonates of Mg, Ba, Sr, and Ca.

G.S.

1. Metals-Separation 2. Sodium alloys-Chemical reactions 3. Metal carbonates-Chemical reactions

Card 2/2

	Sulfate-carbonate exchange in alkali metal fusions. Izv. Sib. otd. AN SSSR no.3:60-64 '58. (MIRA 11:8)
	1. Irkutskiy sel'skokhozyaystvennyy institut. (Alkali metal sulfates) (Alkali metal carbonates) (Fusion)

Ternary system of lithium, sodium and potassium carbonates. Izv. Sib. otd. AN SSSR no.7:33-35 '58. (MIRA 11:9)	
1. Irkutskiy sel'skokhosyaystvennyy institut. (Alkali metal carbonates) (Fusion)	

ACCESSION MIL: APholo878

3/0210/63/000/011/0106/0113

AUTHORS: Poplavskaya, L. N.; Volkova, L. F.; Zhuk, F. D.

TITLE: Seismicity of the Far East for 1961

SOURCE: Geologiya i geofizika, no. 11, 1963, 106-113

TOPIC TAGS: seismicity, Far East, epicenter, deep focus, earthquake, deep focus earthquake

ABSTHACT: This paper is a summary of instrumental and macroseismic data for earthquakes in the Far East during 1961. Epicenters were located by the methods considered most effective for that region: 1 - average lines, 2 - equal distances from stations, 3 - intersections for t<sub>p</sub>, and 4 - master curves for isochrons of t<sub>p</sub> and S-P. The first was most commonly used in combination with the third. The accuracy of locating epicenters was generally within 20-25 km. The epicenter of deep-focus earthquakes was easily located by one of the above methods. The depth of focus was generally found by difference in the S-P and sP-P phases, but difficulties were encountered because, firstly, the S-P travel-time curves for the depth 20-50 km within the epicentral interval 1.5-150 were difficult to distinguish and,

Card 1/2

ACCESSION NR: AP4010878

secondly, the separation of the sP phase on seismograms of Kurile-Kamchatka earthquakes was frequently impossible. Depth was therefore generally determined by data from near (up to 100 km) and distant (over 1500 km) stations. Euring the indicated period (1961), 6 earthquakes of group II were recorded  $(7\frac{1}{2} > M > 6\frac{1}{2})$ , 18 of group III  $(6\frac{1}{2} > M > 5\frac{1}{4})$ , 86 of group IV  $(5\frac{1}{4}) + M > 6\frac{1}{4})$ , and 132 of group V (K < 4). Soismicity for 1961 in the Kamchatka region was considerably lower than in preceding years. All earthquakes with a scale reading greater than 5 are shown in a table. The two largest were: 1 - the earthquake of 12 February, with M = 7, on the island of Shikotan; 80 aftershocks with  $3\frac{1}{2} < M < 6$  were recorded within 21 hours after the main shock; and 2 - the earthquake of 11 August, 50 km south of Nemuro, with M = 6 3/4. The authors are deeply grateful to R. 2. Tarakanov and S. L. Solov'yev for valuable suggestions during preparation of this paper. Orig. art. has: 6 figures, 4 tables, and 2 formulas.

ASCCIATION: Sakhalinskiy kompleksnyzy nauchno-issledovatel'skiy institut Sibirskogo otdeleniya AN SSSR, pos. Novo-Aleksandrovsk (Sakhalin Joint Scientific Research Institute of the Siberian Department AN SSSR)

SUBMITTED: 11Dec62

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: AS Card 2/2 NO REF SOV: 009

OTHER: 002

26519 5/065/61/000/008/002/009 E030/E135

11,0140

Masagutov, R.M., Berg, G.A., and Volkova, L.I.

AUTHORS:

The effect of degree of hydrofining feedstock for

TITLE :

catalytic cracking

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No.8,

pp. 8-13

This experimental investigation was to improve the yield and quality on cat. cracking high-sulphur, high-coking crudes such as Chekmagush and Arlan; for such crudes, hydrofining is an obvious approach. Work was on the laboratory scale. The hydrofiner unit held 200 ml aluminocobalt molybdate catalyst; and the cat. cracker used alumino-silicate catalyst, of activity Cat. cracker space velocities were 0.7, 1.0 or 1.5 per hour, and the cycle time 30 minutes. For hydrofining, optimum conditions were virtually independent of space velocity and consisted of 50 kg/cm<sup>2</sup> gas pressure and 370°C temperature. Comparing hydrofined and unhydrofined material under cracking conditions with identical coke formation (4.5% weight), the output of benzine fraction was increased from 36 to 61.5%. Card 1/2

26519

S/065/61/000/008/002/009 E030/E135

The effect of degree of hydrofining..

In order to obtain 1% sulphur diesel fuel from Chekmagush feed, it was necessary to hydrofine at 370°C,50 kg/cm² pressure, and 0.8-1.0 per hour space velocity.

There are 7 figures and 2 tables, and 22 references: 10 Soviet and 12 non-Soviet. The English-language references read as follows: Ref.13: Viland, C.K. Petroleum Refiner, 36, No.3, 197-220, 1958, Ref.14: Samnelson, G.I., Woelflin, W. Petr. Ref., 38, No.3, 211-223: 1959; Ref.16: Abbott, M.D., Archibald, R.C., Dorn, R.W. Oil and Gas

J., 56, No. 20, 144, 1958; Williams, C.C., Abbott, M.D. Petrol. Eng. 32, No. 5, 25-28, 1960.

ASSOCIATION: BashNII NP

Card 2/2

ANDREYEV, D. Ya.; ERENTS, A.D.; VOLKOVA, L.J.; MAKHAVEYEV, M.V.

Elements effectiveness of capital investments in the production, gathering, and refinement of petroleum gas. Gaz. delo no.6:30-33 (MIRA 18:8)

1. Moskovskiy ordera Trudovogo Krasnogo Znameni institut reftekhimichiskoy i gazovoy promyshlennosti im. skademika Gubkina.

	L 13292-66 EWT(m)/EWP(j) RM SOURCE CODE: UR/0286/65/000/021/0012/0012
	CC NR: APBOUUSZS V. P. i
1,	INVENTOR: Volkova, L. I.; Zaitova, A. Ya.; Ioakimis, A. A.; Mochai Ilkova, I. I.; Zaitova, A. Ya.; Ioakimis, A. A.; Mochai Ilkova, I. Ioakimis, A. A.; Mochai Ilkova, I. Ioakimis, A. A.; Mochai Ilkova, Ilkova, I. Ioakimis, A. A.; Petrov, V. N.; Rachkovskiy, E. Ioakimis, A. A.; Tikhanovskaya, S. G.
1	Jazarova, L. Yu.; Nazarov, V. I.; Pryakhina, H. S.; Savel'yev, A. P.; Syrova, A. A.; Tikhanovskaya, S. G.
	SAVEL VOVE III - V
	ORG: none  TITLE: A method for producing normal butanol by synthesis from ethyl alcohol.  TITLE: A method for producing normal butanol by synthesis from ethyl alcohol.  TITLE: A method for producing normal butanol by synthesis from ethyl alcohol.  TITLE: A method for producing normal butanol by synthesis from ethyl alcohol.
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	TITLE: A method for producting  Class 12, No. 175929 [announced by the Bashkir Scientific Research Institut po pererabotke  Petroleum Refining (Bashkirskiy nauchno-issledovatel skiy institut po pererabotke
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	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 12
	SOURCE: Byulleten 12051
	TOPIC TAGS: catalysis, butanol, ethyl alcohol
	ABSTRACT: This Author's Certificate introduces: 1. A method for producing normal ABSTRACT: This Author's Certificate introduces: 1. A method for producing normal abstract: The process is done in a
	ABSTRACT: This Author's Certificate introduces: 1. A method for producing done in a butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a butanol by synthesis from ethyl alcohol on a catalyst.
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	UDC: 66.097.3 : 547.264.07
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L 13292-66  ACC NR: AP6000325  method in which the catalyst contains from 5 to 80 % aluminum oxide, from 95 to 10 % magnesium oxide, from 0 to 50 % silicon oxide and from 0 to 5 % of a salt or oxide of an alkali metal.  SUB CODE: 07/ SUBM DATE: 11Apr63/ ORIG REF: 000/ OTH REF: 000  Card 2/2				1				•	•
ACC NR: AP6000325  method in which the catalyst contains from 5 to 80 % aluminum oxide, from 95 to 10  method in which the catalyst contains from 5 to 80 % aluminum oxide, from 95 to 10  % magnesium oxide, from 0 to 50 % silicon oxide and from 0 to 5 % of a salt or oxide  of an alkali metal.  SUB CODE: 07/ SUBM DATE: 11Apr63/ ORIG REF: 000/ OTH REF: 000									
ACC NR: AP6000325  method in which the catalyst contains from 5 to 80 % aluminum oxide, from 95 to 10  method in which the catalyst contains from 5 to 80 % aluminum oxide, from 95 to 10  % magnesium oxide, from 0 to 50 % silicon oxide and from 0 to 5 % of a salt or oxide  of an alkali metal.  SUB CODE: 07/ SUBM DATE: 11Apr63/ ORIG REF: 000/ OTH REF: 000	r 13292-66			بعادات والمستسلس				0	
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5/744/62/000/005/002/003 1060/1260

AUTHORS:

Masagutov, R.M., Berg, G.A., and Volkova, L.I.

TITIE:

Preliminary purification by hydrogenation of crude oils treated

by catalytic cracking

SOURCE:

Ufa. Bashkirskiy nauchno-issledovatel'skiy institut po perorabotke nefti. Trudy. no. 5. 1962. Sornistyye nefti

i produkty ikh perorabotki. 77-88 ·

The process of catalytic cracking is particularly sensitive to impurities contained in crude oils, like nitrogen and various metals, which tend TEXT: to poison the catalyst with a consequent increase of the amount of coke at the

expense of lighter fractions.

The author concludes that the best method of purification is by hydrogenation, apart from the drawback of requiring large amounts of hydrogen, depending on the quantities of crude treated and the intensity of the hydrogenation process.

Experiments by the author give the optimum conditions for purification prior to catalytic cracking as: pressure 50 atm., temperature 370°C,

Card 1/2

### "APPROVED FOR RELEASE: 08/09/2001

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THE PROPERTY OF THE PROPERTY O

Preliminary purification... S/744/62/000/005/002/003 I060/I260

circulation of hydrogen 800 ml/l of crude oil, volumetric velocity of crude supply from 0.5 to 10 hrs, 1 depending on the required intensity of hydrogeneration.

There are 8 figures and 2 tables. .

Gerral April

MASAGUTOV, R.M.; BERG, G.A.; VOLKOVA, L.I.; PLOTNIKOVA, L.I.; PECHNIKOVA, T.N.; ZAGRYADSKAYA, L.M.; MIROHOV, A.A.

Combining the preparation of raw stocks for catalytic cracking with the production of neutralized black sludge. Trudy Bash NIINP no.5:88-93 162. (MIRA 17:10)

MASAGUTOV, R.M.; BERG, G.A.; VOLKOVA, L.I.

Effect of the depth of stock hydrofining on the results of catalytic cracking. Khim.i tekh.topl.i masel 6 no.8:8-13 Ag '61. (MIRA 14:8)

1. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti.

(Petroleum--Refining) (Cracking process)

EYGENSON, A.S.; MASAGUTOV, R.M.; ZAITOVA, A. Ya.; VOLKOVA, L.I.; BERG, G.A.;

Effect of some physicochemical properties of raw stock on catalytic cracking indices. Trudy. Bash NII NP no.3:19-32

(Gracking process)

(Gracking process)

MASHTAKOV, S.M.; LEDOVSKIY, S.Ya.; VOLKOVA, L.I.

Experiments in studying the physiological action of derivatives of 3-amino-1,2,4-triazole. Dokl.AN BSSR 3 no.10:422-425 (MIRA 13:2)

1. Predstavleno akademikom AN BSSR I.D. Yurkevichem. (Triazole--Physiological effect)

VOLKOUA, L.J.

PHASE I BOOK EXPLOITATION

SOV/3012

Akademiya nauk SSSR. Morskoy gidrofizicheskiy institut

Fizika morya (Physics of the Sea) Moscow, Izd-vo AN SSSR, 1959.

95 p. (Series: Its: Trudy, Vol 17) Errata slip inserted.

1,300 copies printed.

Ed.: A. A. Ivanov, Doctor of Physical and Mathematical Sciences; Ed. of Publishing House: N. D. Yershova; Tech. Ed.: I. N.

PURPOSE: This issue of the Institute's Transactions is intended for oceanographers, hydrographers, and geophysicists.

COVERAGE: This collection of articles treats problems in physics of the sea. Individual papers discuss wave and tide hydrodynamics, free surface perturbations, the Black Sea tsunami of 1927, and the characteristics of the vertical stability of water masses in the Iceland-Faroe Islands-Great Britain area. A paper by I. I. Stas' proposes solving the problem of the decreasing level of the Caspian Sea by diverting waters of the card 1/3

Physics of the Sea (Cont.)	sov/3012
Sea of Azov by canal through th References accompany individual	ie Kumo-Manychskaya valley. Larticles.
TABLE OF CONTENTS:	
Sekerzh-Zen'kovich, Ya. I. Zonal St	
Voyt, S. B. Waves on the Boundary S Arising From a Shifting Periodic Sy	gunface Between Two Laquius
Walkova I. I. Tides in a Channel	Encircling the Globe
Sekerzh-Zen'kovich, T. Ya. Diatri bation Along a Free Surface and on Liquid Consisting of Two Layers of	bution of Initial Pertur- the Boundary Surface of a Different Density 48
Grigorash, Z. K. Black Sea Tsunam on Mareographic Recordings	ni in the Year 1927, Based 59
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Stas', I. in the Cas	I. The Proble pian Sea	m of Mainta	ining a Con	stant Lev	el	68
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MASACUTOV, R.M.; BERG, G.A.; VOLKOVA, L.I.

Preparing raw stocks for catalytic cracking by hydropurification.

Trudy Bush NIINP no.5277-28 162.

(MIRA 17:10)

VOLKOVA, L.I.; SOBOLEVA, A.M.; ADAMOVA, T.K.

Raising geese in Latvia. Ptitsevodstvo 9 no.2:16-17 F '59.

(MIRA 12:3)

1.Direktor Rezeknenskoy inkubatorno-ptitsevodcheskoy stantsii (for Volkova). 2.Direktor Daugavpilsskoy inkubatorno-ptitsevodcheskoy stantsii (for Soboleva). 3.Glavnyy zooteknik respublikanskoy kontory inkubatorno-ptitsevodcheskoy stantsii (for Adamova).

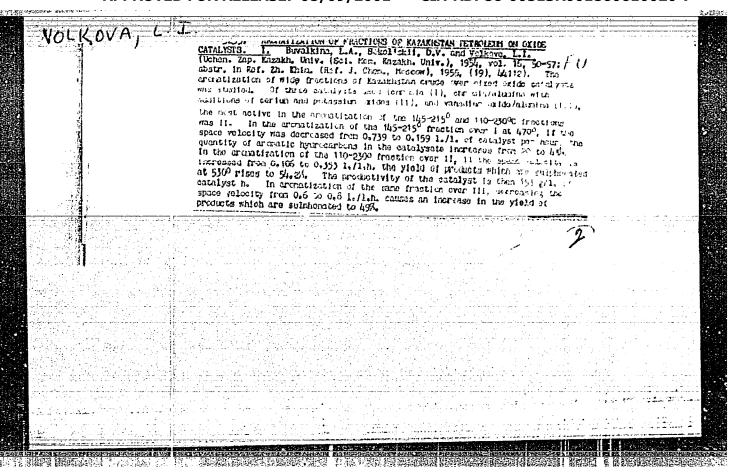
(Latvia-Geese)

MASAGUTOV, R.M.; SHESTAKOVA, N.M.; MIKHAYLOVA, M.G.; GILYAZEV, N.G.; ZAITOVA, A.Ya.; VOLKOVA, L.I.

Effect of temperature during calcination on the mechanical strength of catalysts. Khim. i tekh.topl. i masel 4 no.1: 69-71 Ja '59. (MIRA 12:1)

1. Bashkirskiy nauchno-issledovatel skiy institut neftyanoy promyshlennosti.

(Catalysts)



BITYUKOV, Il'ya Il'ich; TALYZOV, Aleksandr Fedorovich; TSERAPIYER, L.S., inzh., red.; VOLKOVA, L.I., red.; VELITSYN, B.L., tekhn. red.

[Metal latticed formwork for solid concrete]Metallicheskaia setchataia opalubka dlia massivnogo betona. Moskva, Orgenergstroi, 1961. 47 p. (MIRA 15:8) (Concrete construction—Formwork)

MASAGUTO7, R.M.; SHESTAKOVA, N.M.; MIKHAYLOVA, M.G.; GILYAZEV, N.G.; ZAITOVA, A.Ya.; VOLKOVA, L.I.

Effect of the firing temperature of a catalyst during preparation on its mechanical strength. Trudy Bash NII NP no.3:166-170 60. (MIRA 14:4)

(Catalysis) (Cracking process)

AFFIC/APGC Pr-4 EFF(c)/EWT(m)/BDS s/081/63/000/005/050/075 63 L 12293-63 Masagutov, R. M., Berg, G. A. and Volkova, L. I. AUTHOR: Preparation of the catalytic cracking raw materials by the TITLE: hydrogenation refining method Referativnyy zhurnal, Khimiya, no. 5, 1963, 499, abstract 5P146 (Tr. Bashkirsk, n-i. in-t. po pererabotke nefti, 1962, no. 5. PERIODICAL 77 - 88) After a review of literature the data are presented from experimental tests in the indicated field, as a result of which there were established the optimum conditions for hydrogenation refining of raw material for catalytic cracking: pressure of 50 atm, temp. 370° C, circulation of H2 800 ml/l of raw material, volume speed of feeding of the raw material 0.5 - 10 hours-1, depending on the desired degree of refining. It was shown that, under catalytic cracking of refined and unrefined gas oils to an identical under catalytic cracking (output of coke 4.5 % by weight) the output of gasoline from degree of cracking (output of coke 4.5 % by weight) the output of gasoline from refined gas oil is 32 - 61.5 % greater than from unrefined, depending on the volume speed of hydrogen refining. It washshown that to obtain fractions of

Card 1/2

L 12293-63

Preparation of the catalytic ....

s/081/63/000/005/050/075

diesel fuel with content of up to 1 % S from gas oil of Chekmagush petroleum it is necessary to subject the last to refining at volume speed of 0.8 - 1 hour-1. Hydrogenation of raw material of catalytic cracking leads to an improvement in the material balance of catalytic cracking and to an increase in quality of products. Also, it decreases the contamination of the catalyst by elimination of metals and nitrogen compounds and reduces the corrosion of instruments, as well as improving the conditions for exploitation of the plant by elimination of S compounds. The economic reports indicate that preliminary preparation of raw material for cracking by the hydrogen refining method costs considerably less than hydrogen refining of the catalytic cracking products. The bibliography contains 54 items. A. N.

[Abstractor's note: Complete translation]

Card 2/2

### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860610020-7

L 12294-63 EPF(c)/EWT(m)/BDS AFFTC/AFGC Pr-4 EW/MN 67 5/081/63/000/005/051/075 64

AUTHOR: Masagutov, R. M., Berg, G. A., Volkova, L. I., Plotnikova, L. I., Pechnikova, T. N. Zagryadskaya, L. M. and Mironov, A. A.

TITLE: Combinations of preparation of raw material for catalytic cracking and obtaining of neutralized contact catalyst

PERIODICAL: Heferativnyy zhurnal, Khimiya, no. 5, 1963, 499, abstract 5P147 (Tr. Hashkirsk. n.-t, in-t. po pererabotke neft, 1962, no. 5, 88 - 93)

TEXT: At an experimental plant in 2 l capacity reactor in a mobile layer of bulbous alumosilicated catalyst (KT) at 450° C volume speeds of 0.7, 1.0 and 1.5 hours-1, circulation ratio (KT) 3:1 (index of activity of KT 32 - 33 points) experiments were conducted on cracking of purified (so-called "depleted") gas oils from a plant for producing neutralized contact catalyst (NChK) and extracted vacuum gas oil from a mixture of Shkapov and Romashkin petroleum. In the catalytic cracking of acid purified gas oil the extraction of coke is lower than in cracking of unrefined gas oils. Gas which forms in cracking of refined gas oil contains more propane-propylene and butane-butylene fractions and less

Card 1/2

### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860610020-7

L 12291-63
Combinations of preparation ..... S/081/63/000/005/051/075

H<sub>2</sub>S. Gasoline, extracted in cracking of refined gas oil, contains a smaller amount of S compounds and is more stable during storage. As a result of cracking of refined gas oil a 30 - 40 % fraction of diesel fuellwith content of S \leq 1 \sigma is attracted. The process is economical, which is indicated by calculations conducted by one of the Uffim oil refineriss. A. Nagatkina.

[Abstractor's note: Complete translation]

 10-4-8-22/35 G.V. and	and All-Union Conference on Gas	Rediceshalks 1 stakfrontes, 2771. pp 1339 - 1305 (Use 1 to 1 t	Ministry of Higher Education and July Consists Consisted. It was opened by the chairman of the organistic consistent His. Legislatich Academistan. During the plenary seasions of the organist were delivered to the configuration of universy papers were delivered to the configuration.	L.A. Ariaimentin than a family of the option of managements was given a survey of the option action of a survey of the option of	in the papers of the year of the titute of Technology S. Brown of the Massachusetts institute of the institu	gation of statements and the sourcest). In this issue of the journes!. I. The federate seed a paper entitled Toniestion and I.V. Federate for the federate Collisions".	tion of lone in Gas".	tics of Ion initial sta	 novekty	p 1316 of this rmany) described	of especiments on non-stationary plains Consulted by blanchift (Entern Germany) gave a generalised theory of	plasms. The conference was divided into all services. The first section was presided over by L.A. Same and was the first the almentary processes in gas distinction.	The following papers were read in this section: In. N. Pegel. "Transformation of Positive fons Into	pears.  N.Y. Padernic et al. "Disseciation of Molecular Lons in Cas".	•	M. Rushnir et al. "Experimental investigation of the Recentate Retarging in Cartain Single-ston Gases and Markel Vaccuta".	0.B. Pirsor - Qualitative Investigation of Included Collidates of Atoms of the	L.M. Volkaya. "Effective Excitation Cross-sections of Spectral Lines of Petersium and Argon", Spectral Lines of the	Investigation of the Optical Functions of the Encitation Bands of a Messive System.	A.A. Wordblyev and A.Q. Vlasor . "Investigation of the Settenting of the Siettenth In Betatron Chamber".	100	papers were read in this section G.T.E. Maker-Limenov and Ye.A. Heilighthy. "Electrostatio Catrol of the Igation of Glow-discharte Tubes"(see	b 127% of the journal). 5.V. Filisym et al. were concerned with the breakdown. In a highwoilege mercury rectifier (see p 1276 of the	Ton of t	Jo esti	
24, 2 / 20 AUTHORS:	ritti	PRIODICAL:					C: /TELES		•									, Pare 2								

MERINA, V.K., kend, med.nauk; VOIKOVA, L.M.

Disgnostic significance of disatesuris in acute pancreatitis [vith summary in English, p.158], Vest.khir. 79 no.7:36-42 Jl '57.

(MIRA 10:10)

1. Is 2-y kafedry khirurgii (sav. - prof. G.A. Comrystovoniya vrachey imeni S.M. Kirove i khirurgicheskogo otdeleniya bol'nitay im. Lenina (glavnyy vrach - V.S. Rasumithin)

(ANTIASES, in urine disatese in acute pancreatitis (Rus))

(PANCHEATITIS, urine in, disatese (Rus))

101 KOVA, L.119.

USSR/Electronics - Electronic and Ionic Emission

H-2

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 12289

Author

: Volkova, L.M.

Inst

: Mcscow State University, Moscow

Title

: Secondary Electron Emission from Tungsten Carbide.

Orig Pub : Radiotekhn. i elektronika, 1956, 1, No 4, 535-536

Abstract

: An investigation was made of the secondary electron emission from tungsten carbide (W2C). A coating of W2C with addition of 6% Co, with a thickness of approximately 2 x 10-2 mm, was placed over a tantalum backing. Measurements were carried out with the spherical-capacitor method, and the working pressure in the instrument was 5 x 10-7 mm mercury. The dependence of the coefficient of secondary-electron emission, o, on the energy of the primary electrons Up, and the distribution of the secondary electrons by

Card 1/2

SOV/51-6-3-1/28

AUTHOR: Volkova, L.M.

TITLE: Effective Cross-Sections of Excitation of Potassium Spectral Lines (Effektivnyye secheniya vozbuzhdeniya spektral'nykh

liniy kaliya)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 3, pp 273-278 (USSR)

ABSTRACT: A Hamle-type tube with truncated-cone electrodes was used to study the dependence of the effective excitation cross-sections on the incident electron beam energy for eleven lines of potassium lying in the region 4000 - 4300 2. The electron beams were monochromatic to within 1 eV. Potassium was purified by multiple sublimation. It was deposited in a branch tube and heated to 127.5°C, to produce a vapour pressure of 1.3 x 10<sup>-4</sup> mm Hg. At this pressure the mean free path of 27 eV electrons is 21 cm. Such a long path ensured an absence of multiple collisions in the excitation region, which was only 0.8 cm long. The absence of multiple collisions was confirmed by the fact that all the Card 1/3 spark lines of potassium (cf. Figs.3-5) appeared first at

SOV/51-6-3-1/28 Effective Cross-Sections of Excitation of Potassium Spectral Lines

electron beam energies equal to the sum of the ionization and excitation potentials. The arc lines (Fig.6) appeared when the electron energy was equal to the excitation potential. The absolute values of the excitation cross-sections for 60 eV electrons were found by comparison of the excited line density on a photographic record with the continuous spectrum of a tungsten lamp with known emission spectrum. These consections  $(q_{1k}, in units of 10^{-19} cm^2)$  are given for eleven potassium lines in col.3 of a table on p 276. show the dependences of the excitation cross-section on the electron energy (in eV) for three spark lines at 41.86.23 R (Fig. 3), 4263.48 R (Fig. 4) and 4115 R (Fig. 5), as well as an arc doublet 4044.14/4047.20 & (Fig.6). lines were recorded photographically using an ISP-51 spectrograph, or photoelectrically using the same spectrograph Card 2/3 and a PS-381 collimator. There are 6 figures, 1 table

SOV/51-6-3-1/28 Effective Cross-Sections of Excitation of Potassium Spectral Lines

and 7 references, of which 2 are Soviet, 4 English and 1 German.

SUBMITTED: March 3, 1958

Card 3/3

24 (7) AUTHOR:

Volkova, L. K.

807/48-23-5-8/25

TITLE:

The Effective Cross Sections of the Excitation of Some

Spectral Lines of Potassium and Argon

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 8, pp 968 - 970 (USSR)

ABSTRACT:

In the present paper the dependence of the excitation cross sections of some spectral lines of argon and potassium on the energy of incident electrons is determined. Measurements of potassium were carried out by photometric—as well as by photomelectric methods. Only photographic methods were used on argon. In the diagrams of figures 1 and 2 the excitation curves for both elements for two lines each are shown. Further, the dependence of the excitation cross sections for both elements on the energy of incident electrons for one line each of both elements is shown by the diagrams of figures 3 and 4. According to other papers the electron figuration — altogether nine lines before and after the transition — are then compiled; with respect to the method of measurement of the cross sections of the lines, the paper of S. E. Frish (Ref 6) is referred to.

Card 1/2

The Effective Cross Sections of the Excitation of SOV/48-23-8-8/25 Some Spectral Lines of Potassium and Argon

There are 4 figures and 6 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy gos. universitet im. M. V. Lomonosova, Fizicheskiy fakulitet (Moscow State University imeni M. V. Lomonosov,

Physics Department)

Card 2/2

ACCESSION NEL: AR4039970 S/0299/64/000/009/0005/0005

Sounce Ref. zh. Piol. Sv. t., Abs. 5028

AUTHOR: Rozhkov, A. S.; Verzhutskiy, B. N.; Byalaya, I. V.; Velkova, L. M.

TITLE. A study of relationships between phenological phenomena in East Siberia. Report I. Kyrmenskaya valley (Bayandayevskiy rayon of Irkutsk oblast!), May-June 1960

CITED SOURCE: Biol. Vost.-Sib. fenol. komis., vyup. 2-3, 1963, 42-45

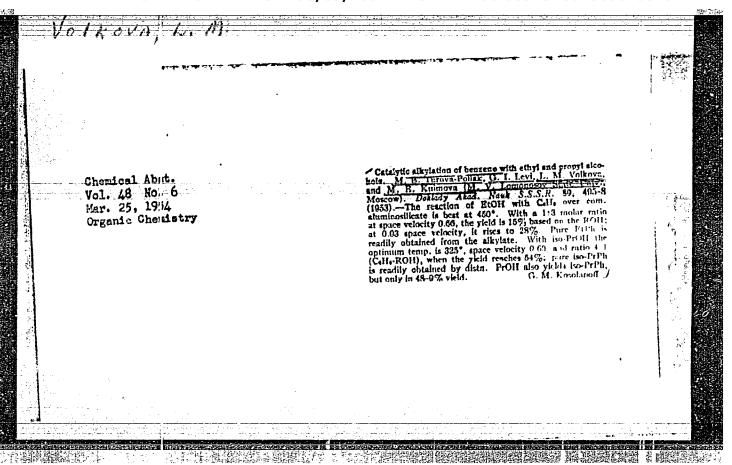
TOPIC TAGS: East Siberia, phenology

TRANSLATION: A study of relationships between phenological dates in a seasonal raythm enables the finding of indicators of important moments in plant and animal life which are difficult to record and facilitates the adoption of timely preventive measures against harmful insects.

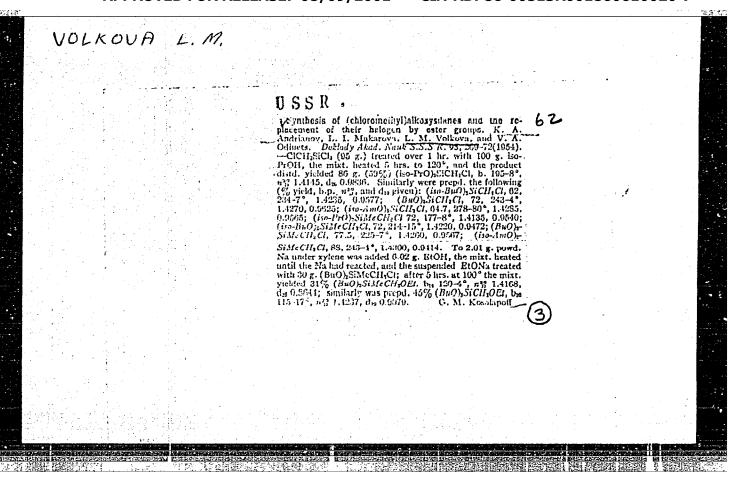
SUB CODE: L3

ENCL: 00

Card 1/1



#### 



VOLKOVA, L.M.

USSR/Chemistry .. Synthesis

Card 1/1 Pub. 22 - 17/44

Andrianov, K. A. Memb. corresp. of the Acad. of Sc. USSR, and Volkova,  $L_{\bullet}$   $M_{\bullet}$ Authors

Title Synthesis of phenylaminomethylalkoxysilenes

Dok. AN SSSR 98/1, 67-70, Sep 1, 1954 Periodical

Abstract The reaction of Cl substitution in alpha-chloromethylmethyldialkoxysilanes by the amino group during the reaction of aniline and othylaniline with silane was investigated. The factors leading to the formation of phenylaminomethylalkoxysilanes during the reaction between chloromethylmethyldialkoxysilanes and aniline or ethyl aniline, are explained. The synthesis of ten hitherto unknown phenylaminomethylmethyldialkoxysilanes and their physico-

1-USSR (1945-1952). Table.

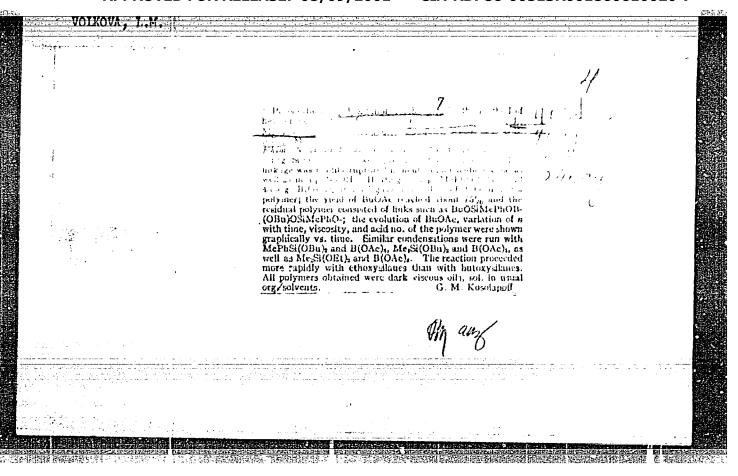
Institution

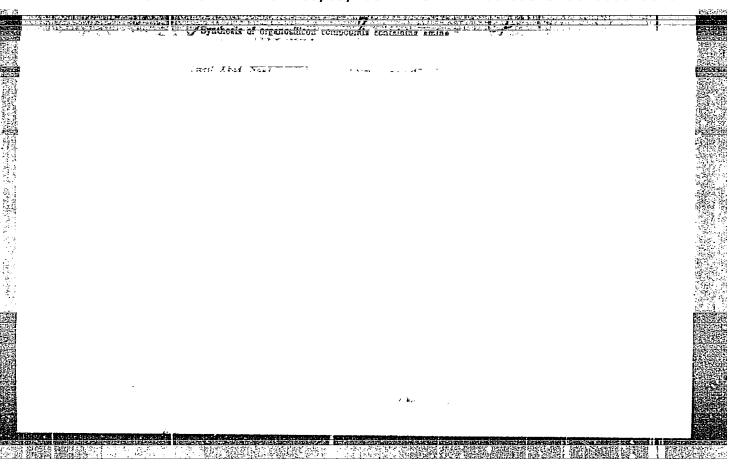
Submitted May 14, 1954

> APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860610020-7"

chemical properties are described. Three references: 2-USA and

#### 





#### CIA-RDP86-00513R001860610020-7 "APPROVED FOR RELEASE: 08/09/2001

AUTHORS:

507/62-58-8-5/22

Andrianov, K. A., Volkova, L. M.

TITLE:

The Synthesis and Investigation of the Properties of Liquid 1-n-Hexamethyl (Polyphenyl-Aminomethyl-Methyl)Siloxane (Sintez i issledovaniye svoystv zhidkikn !-n-geksametil

(polifenilaminometilmetil)siloksanov)

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958, Nr 8, pp. 941-948 (USSR)

ABSTRACT:

PERIODICAL:

There have been little publications on organo-silicon liquid polymers with polar groups in the organic radical. In the introduction the authors mention various papers (Refs 1-6) dealing with these problems. The synthesis of liquid polyorganosiloxanes with amino nitrogen in the organic radical at the silicon atom is not only of theoretical interest but has also practical value (the production of polymer liquids of valuable technical properties). In the present paper the authors describe the production of organosilicon liquid polymers (of the degree of polymerization n=1,2,3) with trimethylsiloxy end groups by means of the common hydrolysis (co-hydrolysis) of trimethyl ethoxysilane and substituted aminomethylmethyl diethoxysilanes. The activation energy of the viscous flow was determined and it

Card 1/2

SOV/62-58-8-5/22 The Synthesis and Investigation of the Properties of Liquid 1-a-Hexazethyl (Polyphenyl-Aminomethyl-Methyl)Siloxane

> was found that this activation energy depends on the structure of the group introduced into the radical. The groups investigated are (arranged according to their decreasing activation energy): ClC6H\_NH>C6H\_SNH>C6H\_5C\_2H\_5N>(C\_2H\_5)\_2N. There are 4 figures, 1 table, and 7 references, 1 of which is Soviet. Institut elementorganicheskith scyedineniy Akademii nauk SSSR

ASSOCIATION:

(Institut of Elemental-Organic Compounds, AS USSR)

SUBMITTED: January 28, 1957

Card 2/2

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VOLKOVA, L. H.

L. M. Volkova, K. A. Andrianov, G. Ye. Golubkov, L. N. Makarova, and V. A. Odinets, "The Introduction of Polar Groups into Organic Radical at the Silicon Atom."

Report presented at the Second All-Union Conference on the Chemistry and Practical Application of Silicon-Organic Compounds held in Leningrad from 25-27 September 1958.

Zhurnal Prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

5(3) AUTHORS:

Andrianov, K. A., Volkova, L. M.

SOV/62-59-2-15/40

TITLE:

On the Reaction of  $\alpha$ -Chloro-methyl Ethoxy-silanes With Amines (O reaktsii  $\alpha$ -khlormetiletoksisilanov s aminami)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, Nr 2, pp 278-282 (USSR)

ABSTRACT:

In the present paper the relative reactivity of chlorine in α-chloro-methyl ethoxy-silanes with various amines was investigated. In contrast with the data hitherto published it was found that chlorine in chloro-methyl ethoxy-silanes is substituted by various amines of the aliphatic and aromatic series at 20°. When ethyl amine is acting on α-chloro-methyl-dimethyl ethoxy-silane and α-chloro-methyl-methyl diethoxy-silane, and aniline on α-chloro-methyl-methyl diethoxy-silane, at 20°, accordingly, ethyl-amino methyl diethoxy-silane (55%), ethyl-amino methyl-methyl diethoxy-silane (56%) and phenyl-amino methyl-methyl diethoxy-silane (56%) and phenyl-amino methyl-methyl diethoxy-silane (13.5%), as well as hydrochloric acid, ethyl-amine and aniline were obtained. The first two compounds are new. It was found that the reaction of amines with α-chloro-methyl ethoxy-silanes at 20° proceeds with dif-

Card 1/2

SOV/62-59-2-15/40 On the Reaction of  $\alpha$ -Chloro-methyl Ethoxy-silanes With Amines

> ferent velocity, according to the nature of the amine. As to their reactivity the amines investigated rank in the following

 $_{\text{HOC}_{2}\text{H}_{4}\text{NH}_{2}}$  >  $_{(\text{CH}_{3})_{3}\text{SiOC}_{2}\text{H}_{4}\text{NH}_{2}}$  >  $_{(\text{C}_{2}\text{H}_{5})\text{NH}_{2}}$  >  $_{(\text{C}_{2}\text{H}_{5})_{2}\text{NH}}$  >  $_{(\text{C}_{6}\text{H}_{5}\text{NH}_{2})}$  $> (c_2H_5)(c_6H_5)$ NH.

As to their reaction rate with amines the  $\alpha$ -chloro-methyl

ethoxy-silanes rank in the following order:

C1CH<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub>SiOC<sub>2</sub>H<sub>5</sub> > C1CH<sub>2</sub>CH<sub>3</sub>Si(OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub> > C1CH<sub>2</sub>Si(OC<sub>2</sub>H<sub>5</sub>)<sub>3</sub>. There are 3 figures and 7 references, 4 of which are Soviet. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR ASSOCIATION:

(Institute of Elemental-Organic Compounds of the Academy of

Sciences, USSR)

SUBMITTED: May 23, 1957

Card 2/2

TERENT'YEV, A.P.; GRACHEVA, R.A.; PREOBRAZHENSKAYA, N.N.; VOLKOVA, L.M.

Synthesis of furan analogs of tobacco alkaloids based on chalcones. Zhur.ob.khim. 33 no.12:4006-4011 D 163. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

Andrianov, K.A.; Volkova, L.M.; Talanov, V.N.

Anmonolysis reaction of \$\lambda \to \to \dichlorodimethylsiloxane. Izv.
AN SSSR. Ser. khim. no.ll:2045-2047 N '63. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

INT(m)/EPF(c)/EMP(j)/T Pc-li/Pr-li ASD(m)-3/AFETR S/0190/64/006/009/1662/1667 ACCESSION NEL AP4045433 Andrianov, K. A.; Volkova, Lora H. AUTHORI Catalytic polymerization of dicyclic dimethylsiloxanes TITLE SOURCE: Vy\*sokomolekulyarny\*ye soyedineniya, v. 6, no. 9, 1964, 1662-1667 TOPIC TAGS: silicone, siloxane, dimethylsiloxane, polysiloxane, dicyclic polysiloxane ABSTRACT: A study has been conducted of the synthesis of branched polyorganodimethylsiloxanes containing silsesquioxane groups at regular intervals in the backbone by catalytic polymerization of dicyclic dimethylsiloxane oligomers. Oligomers of the formula 81 (CHa)a (C11.): Si Si (CII) SI - 0 - (SIO), - FIC (CIL) SIC SI (CHa) (CII.) Si **Card** 1/3

M 11/161-65 ACCESSION NR: AP4045433

1

containing a large number (n) of dimethylsiloxane units between the rings (n = 13, 32, 66, 145, 170, 198, 224, or 270) were prepared by condensation of a, w-dihydroxypolydimethylsiloxanes with heptamethylchlorocyclotetrasiloxane. Study of the polymerization of these oligomers revealed that in the presence of KOH they polymerize much more readily than octamethylcyclotetrasiloxane. A kinetic study of the polymerization at 70C in the presence of 0.5% KOH catalyst showed that with increasing n, the reaction rate and degree of cross linking decrease. All the polymers were transparent products which swelled readily in benzene and toluene. Polymers with n = 12 or 66 were brittle gals; those with n = 170 or over were very elastic materials. A thermomechanical study showed that the polymers differ considerably from linear polydimethylsiloxanes their glass-transition temperature, is -90C, as compared to -58C for the polydimethylsiloxanes. Studies are being conducted to explain this sharp difference. Orig. art. has: 4 formulas and 5 figures.

Card 2/3

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im. M. V. SUBMITTED:		(Moscow I	nstitu	te of F	ine Ch	BMICAL	ENCL:	00	
SUB CODE:	oc, ic		NO RE	F SOV:	008		OTHERS	002	

VOLKOVA, Lora M.; ANDRIANOV, K.A.; OBUSHEVA, M.S.

Bicyclic dimethylsiloxane oligomers. Izv. AN SSSR. Ser. khim.
no.ll:1986-1989 N '63. (MIRA 17:1)

l. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  $M_{\bullet}V_{\bullet}$  Lomonosova.

# VOLKOVA, L.M.; DEVYATOV, A.M.

Determining the effective excitation cross sections of resonance lines of potassium atoms. Izv. AN SSSR. Ser. fiz. 27 no.8:1052- (MIRA 16:10)

1. Kafedra elektroniki Fizicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

Synthesis and spectra of trinethylalkyl-(phenyl, calc 2,6-disilacyclohexanes. Bokl. AN OSSE 160 no.6:1307-1	ing in the second	ŽΦ.	
1. Institut elementoorganisheskikh soyedineniy All 383	• •		
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British British Sanctions	E I
EPF(n)-2/EWP(q)/EWT(m)/BDS CCESSION NR; AP:1004499	AFI TC/ASD/SSD P1-1 WW/JD/JG 66 S/0048/63/027/008/1052/1055
UTHOR: Volkova, 1. M.; Devyatov, A. M.	ections for the resonance lines of
TITLE: Determination of the excitation cross satomic potassium KReport presented at the Secont of Electronic and Atomic Collisions held in	n Uzhgorod 229 000 1002
	8, 1963, 1052-1055
SOURCE: AN BEST, 120052707 TOPIC TAGS: excitation tross section, electro	on impact excitation, spectrument on impact excitation on impact excitation on impact excitation of impact excitat
ABSTRACT: To date there have been only two experiences by R.B. Brode, Rays. Mod. Phys., 5, 257, and V.A.F. and one theoretical investigation (R.Damburg and one theoretical evaluation of the excitat	abrikant, Doklady AN SSSR, 25,664,1939) and V.Kravchenko, Izv.AN LatvSSR, No. 1,
73,1960) devoted to evaluation of the excitat	disagree, possibly because Loveridge
failed to take into account the electron-energy	y dependences and values of K (7665 and 7698 A
try technique to do to the lines of the retation cross sections for the lines of the retation cross sections are lines of the lines of t	a special tube as = 27
Cord 1/1/2	

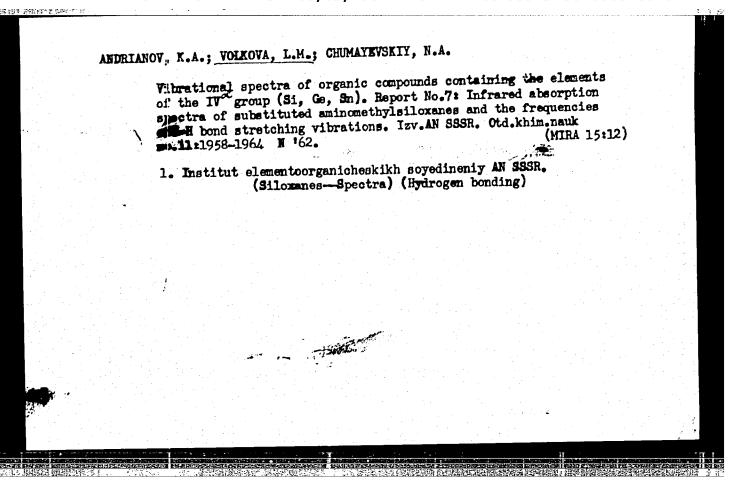
tion tive tion culs by m	pressure of 2 x 10 <sup>-6</sup> mm Hg. The values arrived at for the excitation cross sections are q at 10 eV = 0.85 and qmax = 0.90 for the 7665 % line (4 <sup>2</sup> S <sub>1/2</sub> -4 <sup>2</sup> P <sub>3/2</sub> transition), and q10 eV = 0.40 and qmax = 0.42 for the 7698 % line (4 <sup>2</sup> 1/2-4 <sup>2</sup> P <sub>1/2</sub> transition). The energy dependence of q is shown in Fig.1 of the enclosure. The rolative error in the above values is estimated to be 35%. The sum of the cross sective error in the above values is estimated to be 35%. The sum of the cross sective error in the above values is estimated to be 35%. The sum of the cross sective error in the above values is estimated to be 35%. The sum of the cross sective error in the above values is estimated to be 35%. The sum of the cross sective error in the above values is estimated to be 35%. The sum of the cross sective error in the above values is estimated to be 35%. The sum of the cross sections agrees reasonably well with the results of Fabrikant and the theoretical calculations of Damburg and Kravchenko; it also agrees with the authors' calculations culations of Damburg and Kravchenko; it also agrees with the authors' calculations culations of Damburg and Kravchenko; it also agrees with the authors' calculations to be provided by L.A. Vaynshteyn (Optika i spektorskopiya, 11, 301, 1961). Orig. art. has: 7 formulas, 5 figures and 1 table.  ASSOCIATION: Kafedra elektroniki Fizicheskogo fakul'teta Moskovskogo gos. unifersiteta im. M. V. Lononosova (Chair of Electronics, Dept. of Physics, Moscow State Univ.)											
	CIATION: Kafedr	a elektroniki F	IZICHOSKOGO TA	nt. of Phys	ics. Mosc	ow Stat	e Univ	<u>.</u> )				
ASS( tet	1 1m.M.V.Lononos	load (Cuttle of D.	lectronics, De ACQ: 26Aug63	-	ENCL:	• .	e Univ	٥				
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Determination of the effective excitation cross sections of the arc lines of potassium. Opt. 1 spektr. 13 no.6:849-851 D 162.								
(	(Potassium S	ectra)	(Quantum t	heory)				

KLABUNOVSKIY, Ye.I.; AGRONOMOV, A.Ye.; VOLKOVA, L.M.; BALANDIN, A.A.

Adsorption of racemic and (+) -isomers of 2-butanol or stereospecific silica gels. Izv.AN SSSR.Otd.khim.nauk no.2: (MIRA 16:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR 1 Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. (Butanol) (Adsorption) (Silica)



S/062/63/000/002/013/020 B144/B186

AUTHORS: Andrianov, K. A., Volkova, Lora M., and Tartakovskaya, L. M.

TITLE: Synthesis of dimethyl cyclosiloxanes containing functional

groups in the ring

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 2, 1963, 294 - 298

TEXT; Dimethyl cyclosiloxanes with a functional group at the Si atom were synthesized by quantitative decomposition of dibasic sodium salts of a, a-dioxy-methyl siloxanes with methyl trichlorosilane (I) or methyl-butoxy-dichlorosilane (II). The dimethyl cyclosiloxanes obtained differed in the numbers of Si and O atoms in their rings and were separated by fractionation. Reacting 1,5-disodium-oxy-hexamethyl trisiloxane with I yielded heptamethyl chloro-cyclotetrasiloxane (b.p. 85.5 - 86.5°C, yield 15%), pentamethyl-chloro-cyclotetrasiloxane (b.p. 47 - 50°C, d<sup>20</sup>1.0265, n<sup>20</sup>1.4050, yield 2.6%), and nonamethyl-chloro-cyclopentasiloxane (III) (b.p. 129 - 132°C, d<sup>20</sup>1.0410, n<sup>20</sup>1.4083, yield 7.8%). Reacting it with II yielded heptamethyl-butoxy-cyclotetrasiloxane (b.p. 94 - 96°C, yield 13.9%), Card 1/2

(A

Synthesis of dimethyl...

S/062/63/000/002/013/020 . B144/B186

pentamethyl-butoxy-cyclotrisiloxane (b.p. 67 - 71°C,  $d_4^{20}$  0.9653,  $n_D^{20}$  1.4044, yield 2.1%), nonamethyl-butoxy-cyclopentasiloxane (b.p. 134 - 137°C,  $d_4^{20}$  0.9797,  $n_D^{20}$  1.4110, yield 4.8%), and undecamethyl-butoxy-cyclohexasiloxane (b.p. 200.5 - 203.5°C,  $d_4^{20}$  0.9857,  $n_D^{20}$  1.4135, yield 5.4%). All these compounds dissolved readily in benzene, toluene, acetone and ethyl ether. Their structure was derived from the IR spectra. Substituting NH<sub>2</sub> for the Cl group in III gave nonamethyl-amino-cyclopentasiloxane (b.p. 134 - 137°C,  $d_4^{20}$  1.0160,  $n_D^{20}$  1.4115, yield 32.2%). There are 1 figure and 1 table.

ASSOCIATION: Institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED: May 21, 1962

Card 2/2

ANDRIANOV, I.A.; VOLKOVA, Lore M.; TARTAKOVSKAYA, L.M.

Synthesis of dimethylcyclosiloxanes containing functional groups in a cycle. Izv.AN SSSR.Otd.khim.nauk no.2:294-298 F '63. (MIRA 16:4)

1. Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova. (Siloxanes)

5/051/62/013/006/011/027 E032/E314

Volkova, L.M. AUTHOR:

Determination of the effective excitation cross-

TITLE:

sections for the arc lines of potassium

Optika i spektroskopiya, v. 15, no. 6, 1962, PERIODICAL: 849 - 850

These cross-sections were determined by comparing the intensities of the lines with the continuous spectrum of a tungsten strip lamp (N-8-200 (SI-8-200). The experimental apparatus has been described in a previous paper (the author, Opt. i spektr., 6, 273, 1959). The cross-sections were calculated from the formula

(1)

where d is the diameter of the beam of the excited gas in cm, k - the spectral luminance of the tungsten lamp in erg/sec.sterad.m, Card 1/3

Determination of ....

S/051/62/013/006/011/027 E032/E314

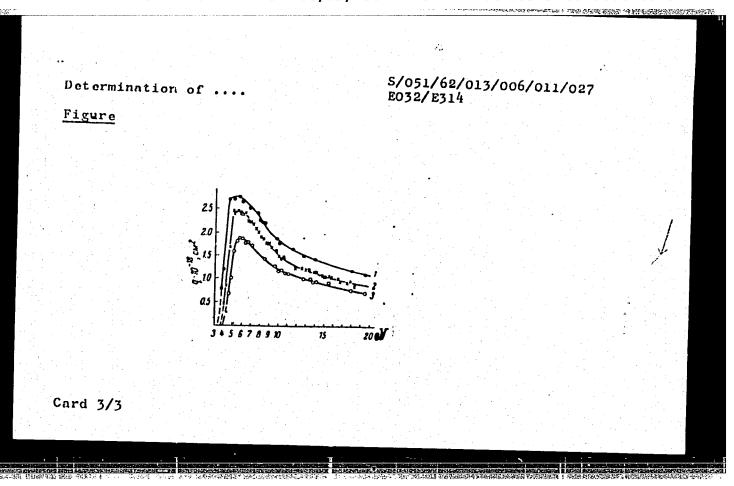
s-spectrograph slit width in cm, D-the linear dispersion of the spectrograph in cm/cm, n-the concentration of potassium atoms in the ground state in cm $^{-2}$ , i-electron current at the receiver in A, e-electronic charge in coulombs,  $F_2$ ,  $F_1$ -focal

lengths of the chamber and collimator lenses of the spectrograph in cm,  $I_1$ ,  $I_2$  are the intensities of the potassium and tungstenlamp spectra and  $t_1$ ,  $t_2$ —the corresponding exposure times in sec.

The maximum possible error in the cross-sections is estimated as 35% and the numerical values for this quantity are tabulated for 19 potassium lines between 4863.66 and 5831.67 Å at an electron-excitation beam energy of 5 eV. The variation in the excitation cross-section with energy for the 6938.89 Å, 5801.86 Å and 5339.9 Å lines is shown in the figure (the ordinates of curve 1 should be multiplied by 6 to obtain the correct scale). There are 1 figure and 1 table.

SUBMITTED: November 18, 1961

Card 2/3



\$/062/62/000/011/004/021 B101/B144

AUTHORS: Andrianov, K. A., Volkova, L. M., and Chumayevskiy, N. A.

TITLE: Vibration spectra of organic compounds containing elements of group IV (Si, Ge, Sn). Communication 7. Infrared absorption spectra of substituted amino-methyl siloxanes and attretching vibration frequencies of C-H bonds

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 11, 1962, 1958 - 1964

TEXT: The IR absorption spectra of the following compounds were studied:  $C_{6H_5}NHCH_2(CH_3)Si(OC_{2H_5})_2$ , b.p. 130 - 132°C/5 mm Hg,  $n_D^{2O}$  1.4975;  $C_{6H_5}NHCH_2(CH_3)_2SiOC_2H_5$ , b.p. 140 - 144°C/20 mm Hg,  $n_D^{2O}$  1.5111;  $C_{6H_5}NHCH_2(CH_3)_2SiOSi(C_2H_5)_3$ , b.p. 109 - 109.5°C/0.5 mm Hg,  $d_4^{2O}$ 0.9402,  $n_D^{2O}$  1.4927;  $(C_2H_5)_3SiOSi(CH_3)(CH_2NHC_6H_5)OSi(C_2H_5)_3$ , b.p. 159 - 161°C/1 mm Hg,  $d_4^{2O}$ 0.9514,  $n_D^{2O}$  1.4819;  $(C_2H_5)_3SiOSi(CH_3)[CH_2N(C_2H_5)_2]OSi(C_2H_5)_3$ , Card 1/3

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Vibration spectra of organic... S/062/62/000/011/004/021 B101/B144 b.p. 102 - 106^{\circ}C/0.5 mm Hg, d_4^{20} 0.8882, n_D^{20} 1.4410; CH_2CH_2 CH_2CH_2
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Vibration spectra of organic ...

B/062/62/000/011/004/021 B101/B144

frequencies of Si-0-Si, Si-0-C, Si-CH<sub>3</sub>, Si-C<sub>2</sub>H<sub>5</sub>, and Si-C bonds. In the present paper the frequencies of the C-H bonds in the Si-CH<sub>3</sub> and Si-C<sub>2</sub>H<sub>5</sub> groups were identified, using data from the earlier paper. The following interpretation of frequencies is suggested:  $v_{\rm g}({\rm CH_2})$  2870 - 2880 cm<sup>-1</sup>;  $v_{\rm g}({\rm CH_2})$  2925 - 2940 cm<sup>-1</sup>;  $v_{\rm g}({\rm CH_3})$  2900 - 2910 cm<sup>-1</sup>, and  $v_{\rm g}({\rm CH_3})$  2956 - 2970 cm<sup>-1</sup>. There are 4 figures and 4 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

SUBMITTED: March 23, 1962

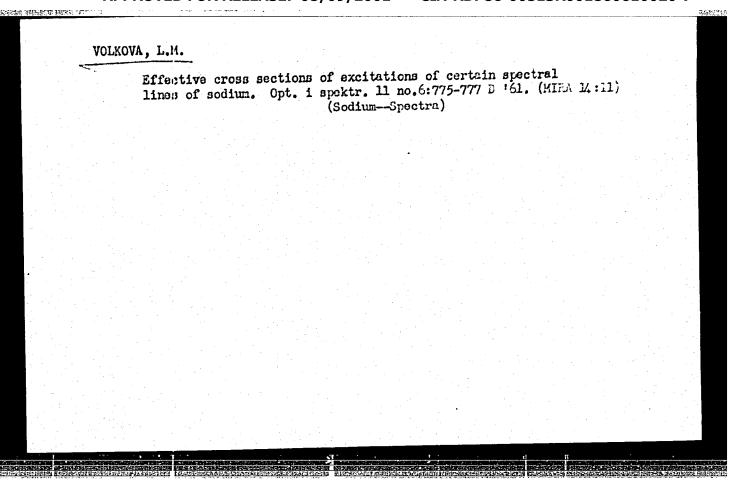
Card 3/3

ANDRIANOV, K.A.; VOLKOVA, Lora, M.; SOKOLOVA, N.V.

Synthesis and polymerization of &- and \$-cyano derivatives of dimethylcyclosiloxanes. Vysokom.soed. 4 no.3:403-408

Mr 162.

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lemonosova. (Siloxanes)



ANDRIANOV, K.A.: VOLKOVA, L.M.

Reactions of amines with bis-(chloromethyl)-tetramethyldisiloxane and its derivatives. Izv. IN SSSR Otd.khim.nauk no.1:87-96 %a '62. (MIRA 15:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Amines) (Silicon organic compounds)

ANDRIANCV, K.A.; VOLKOVA, Lora M.

Synthesis and polymerization of heptamethylalkoxycyclótetrasiloxanes. Vysokom.soed. 3 no.10:1580-1583 0 '61. (MIRA 14:9)

1. Moskovskiy institut tonkoy khimichaskoy tekhnologii imeni M.V. Lomonosova. (Cyclotetrasiloxane)

TERENT'YEV, A.P.; GRACHEVA, R.A.; VOLKOVA, L.M.

Synthesis of substituted pyrrolidinecarboxylic acids via furan derivatives. Dokl. AN SSSR 140 no.3:610-613 S '61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
2. Chlen-korrespondent AN SSSR (for Terent'yev).

(Pyrrolidinecarboxylic acid) (Furan)